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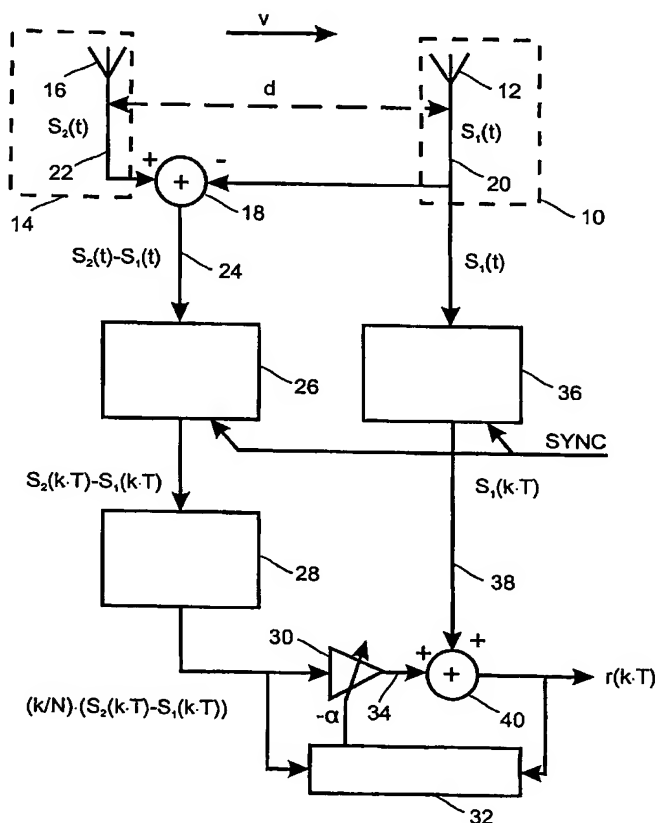
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| <p>(51) International Patent Classification⁷: H04L 1/06</p> <p>(21) International Application Number: PCT/IB2004/051554</p> <p>(22) International Filing Date: 24 August 2004 (24.08.2004)</p> <p>(25) Filing Language: English</p> <p>(26) Publication Language: English</p> <p>(30) Priority Data: 03103281.6 3 September 2003 (03.09.2003) EP</p> <p>(71) Applicant (for all designated States except US): KONINKIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).</p> | <p>(72) Inventor; and (75) Inventor/Applicant (for US only): LINNARTZ, Johan, P., M., G. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).</p> <p>(74) Agent: SLENDERS, Petrus, J., W.,; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).</p> <p>(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> <p>(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GN, GP, KE, LS, LU, MG, MW, MZ, NA, NG, NI, NO, RW, SD, SL, SN, SZ, TD, TG, TZ, ZA, ZM, ZW); EPO (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, JP, KR, LK, LT, LU, LV, MA, MD, ME, NL, NO, PL, PT, RO, RU, SE, SI, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW); OAPI (BF, BJ, GM, GN, GU, KE, ML, MR, NE, NG, NI, NO, RW, SD, SN, TD, TG); ARIPO (BW, GH, GN, GP, KE, LS, LU, MG, MW, MZ, NA, NG, NI, NO, RW, SD, SL, SN, SZ, TD, TG, ZA, ZM, ZW).</p> |
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(54) Title: DIVERSITY RECEIVER



(57) Abstract: The invention is directed to the reception of high rate radio signals (for example DVB-T signals) while the receiver is moving at a high speed (for example in or with a car). Two or more antennas (12, 16) are closely spaced and arranged behind each other in the direction of motion (v) for receiving the radio signals. A difference ($S_2(t)-S_1(t)$) of a signal ($S_1(t)$) obtained via the first antenna (12) and a signal ($S_2(t)$) obtained via the second antenna (16) serves as an estimation of the spatial derivative of the receiving channel transfer function. This spatial derivative is interpreted as a temporal derivative and exploited to cancel or at least reduce distortions (for example ICI) due to rapid receiving channel variations.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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